

## **MAKUSHIN GEOTHERMAL IN UNALASKA, ALASKA**

The Unalaska Island is the site of deep drilling conducted for geothermal resources. In the 1980's, there was an Unalaska Geothermal Feasibility Study prepared for Alaska Power Authority by Dames and Moore that comprised of an exploration program, consisting of three phases. The exploration program confirmed the existence of a highly productive geothermal reservoir at a depth of 1,949 feet, approximately 14 miles west of Unalaska/Dutch Harbor. The water-dominated resource has a bottomhole temperature of 382°F and pressure of 497 PSI. Flow test, reservoir analyses, and well bore modeling indicate that a commercial-size production well at the site would be capable of producing 10 to 15 MW of electrical power, sufficient to meet the power demand of Unalaska/Dutch Harbor for the foreseeable future. The Makushin Geothermal Project was revisited in 1991 (OESI Power Corporation), 1995 (R.W. Beck) and 1996 (Exergy, Inc., and ANEX) all concluded that the Makushin Geothermal Project could support a 12-20 MW binary power plant.

In 1987, the Aleut Corp. sold the Makushin Geothermal land to Battle Mountain Gold Company, and they leased it to OESI who did extensive planning before abandoning the project.